

Title (en)  
Proton-conducting organic materials

Title (de)  
Protonenleitende organische Materialien

Title (fr)  
Matériaux organiques à conduction de protons

Publication  
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Application  
**EP 09007533 A 20090605**

Priority  
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Abstract (en)  
Proton-conducting material having a degree of crystallinity of at least 30%, which comprises: i) at least one organic compound having the formula (I), #####R 1 (R 2 ) m (R 3 ) n (I) wherein - R 1 is an optionally fused aromatic, cyclic or polycyclic moiety comprising 1 to 200 carbon atoms, able to have 3 to 60 substituents; - the substituents R 2 are identical or different and are each a group comprising at least one phosphonic acid moiety; - the substituents R 3 are identical or different and are each hydrogen, a halogen atom, or a group having 1 to 60 carbon atoms; - m is a number within the range 3 to 60; - n is a number within the range 0 to 57; - m+n is within the range of 3 to 60; - said compound comprises at least 4, optionally fused, aromatic moieties, and ii) crystal water.

IPC 8 full level  
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CPC (source: EP)  
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